

Patent Abstracts of Japan

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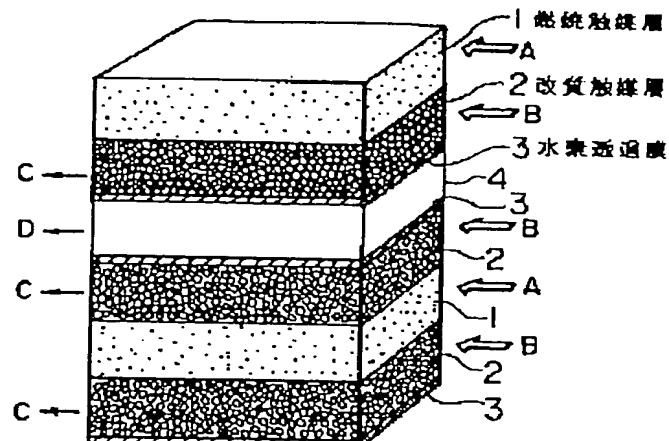
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TITLE : HYDROGEN PRODUCTION DEVICE



ABSTRACT : PURPOSE: To provide a compact hydrogen production device capable of continuously producing high-purity hydrogen by carrying out each reaction in reforming, carbon monoxide conversion and hydrogen purification collectively.

CONSTITUTION: In a device for producing hydrogen by steam modifying reaction from a hydrocarbon and/or an alcohol, the production device is equipped with a flat plate combustion catalyst layer 1 to which a fuel hydrocarbon, etc., and air are supplied, a flat plate modifying catalyst layer 2 which is laminated to the flat plate combustion catalyst layer 1 and to which a raw material hydrocarbon, etc., and steam are supplied and a flat plate hydrogen permeating membrane 3 which is laminated to the reforming catalyst layer 2. A hydrogen discharging gap 4 is adjacent to the hydrogen permeating membrane.

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